



Procurement of Equipment for Selected Local Manufacturing Companies in Georgia

Project Information

“QUIS - Better Goods and Services” (QUIS) is a multi-donor project on Enhancing Companies’ Competitiveness through Quality Infrastructure in Georgia, jointly co-financed by the European Union, the Federal Ministry Economic Development BMZ and Czech Development Cooperation (CDC), and implemented by GIZ and Czech Development Agency (CzDA).

The overall objective of QUIS is the promotion of inclusive and sustainable growth in Georgia and to support the implementation of the DCFTA and its EU related commitments, by contributing to the development of Quality Infrastructure (QI) and supporting the private sector in meeting European standards. The specific objective of the project is to improve the competitiveness and sustainability of the local private sector in the country.

Within the framework of the project a Call for Applications was launched to support selected local manufacturing companies operating in Textile / Fashion products and Toys and children’s furniture products to improve the quality and compliance of goods and services, increase production capacity, and strengthen the overall competitiveness and sustainability of the local manufacturing by providing equipment.



Technical Specifications

Lot 1 – Garment Manufacturing Equipment

This lot comprises industrial equipment for garment manufacturing, textile decoration, embroidery and garment finishing. The equipment has been grouped as an integrated package because it is commonly supplied, installed and serviced by specialized garment machinery suppliers.

No.	Equipment Name	Detailed Technical Specifications	Quantity
1	Industrial Lockstitch Sewing Machine with Stand and Table	Machine type: Automatic industrial lockstitch sewing machine Lubrication system: Semi-dry type Thread trimming: Short remaining thread after trimming, less than 3 mm Sewing function: Capability for initial sewing without bird nesting Thread: No. 2 Stitch length: 5 mm Additional features: Digital presser foot lifter Included: Industrial stand and work table	3
2	Computerized Buttonholing Machine	Machine type: Computerized buttonholing machine with semi-dry head Cutting function: Multi-cut function allowing cutting of long buttonholes without changing the knife Sewing functions: Continuous sewing function; basting stitch function Detection function: Bobbin end detection function Thread trimming: Short remaining thread after trimming Fabric suitability: Suitable for knitwear and stretch fabrics, including dedicated convex plate and arched foot to reduce thread breakage Thread: No. 2 Parallel interspace: 0.2–2.5 mm	1
3	Computerized Bar Tack Machine	Machine type: Computerized industrial bar tack machine Button function: Suitable for sewing shank buttons (shank button clamp) Thread trimming: Automatic thread trimming with short remaining thread after trimming	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
		Additional functions: Automatic wiper function; cap hole function; reinforcement seam and fishing net functions Sewing range: 30–60 mm	
4	Industrial Fusing Machine	Belt width: 60 cm Maximum pressure: 6 kg/cm ² Heating function: System ensuring uniform heat distribution	1
5	Foldable Professional Ironing Table	Table type: Foldable and portable professional ironing table Integrated system: Built-in boiler and powerful fan Boiler volume: 3.5 liters Working surface size: Approximately 1,200 × 400 mm	1
6	Professional Vacuum Ironing Table	Working surface dimensions: Approximately 1,200 × 800 mm Air and heat control: Adjustable heat distribution and air flow Vacuum system: Uniform vacuuming across the full working surface Heating system: Moisture-resistant heating system Temperature control: Adjustable thermostat control Steam function: Continuous steam capability for efficient garment finishing	1
7	Automatic Steam Boiler for Ironing System	Boiler type: Fully automatic electrically heated steam boiler Boiler capacity: 18 litres	1
8	Heavy-Duty Industrial Lockstitch Sewing Machine	Machine type: Single needle lockstitch machine for heavy fabrics Drive system: Engine-powered/direct-drive system Sewing speed: Maximum 5,000 stitches/min Number of needles: 1 Number of threads: 2 Maximum stitch length: 7 mm Needle type: DP × 5 (#14–#21) Presser foot lift height: 5–13 mm Lighting: LED working light Power consumption: 550 W	1
9	Professional Digital Dye Sublimation Roll-to-Roll Printer	Printer type: Professional roll-to-roll dye sublimation printing system Print speed (default): Minimum 58.9 m ² /hour Printhead configuration: PrecisionCore TFP printhead or equivalent performance, featuring 360 × 2 nozzles per colour (CMYK)	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
		Print speed (2-pass): Minimum 30.3 m ² /hour Print speed (4-pass): Minimum 16.2 m ² /hour Print resolution: Minimum 720 × 1,440 dpi Maximum media width: Minimum 1,626 mm (64 inches) Maximum roll outer diameter: Minimum 250 mm. Colour performance: The sublimation printing system shall provide accurate, vivid, and consistent colour reproduction	
10	Universal Seam Sealing, Hemming, Joining and Binding Machine	Machine functions: Seam sealing, overlapping, hemming and binding operations Heating system: Multi-heater system with four separate independent heating devices Roller control: Differential speed control for upper and lower rollers Interface: Colour touch-screen interface Tension control: Automatic tension control system Power supply: AC 220 V, 50/60 Hz, single phase Heater power: 2,680 W Compressed air requirement: >0.4 MPa Maximum speed: 5 m/min Maximum nozzle temperature: 350°C Maximum roller temperature: 250°C Working width: 6–20 mm Dimensions: Approximately 1,220 × 700 × 1,450 mm Net weight: Approximately 130 kg	1
11	Industrial Zigzag Sewing Machine	Stitch system: Standard zigzag and 3-step zigzag Stitch patterns: Standard zigzag and 3-step zigzag Maximum sewing speed: 5,000 stitches/min Zigzag width: 10 mm (standard and 3-step zigzag) Feeding amount: 2.5 mm (standard); 2.0 mm (3-step zigzag) Presser foot lift: 5.5 mm by hand; 10 mm by knee Hook: DP hook with titanium-treated inner hook Thread take-up: Rotary type Lubrication system: Fully automatic lubrication system Needle: 438 (Nm80) or equivalent supplied at delivery Additional functions: Needle position changing mechanism; reverse feed stitching mechanism Needle throw pattern cam: Grooved cam	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
		Included components: Standard needle plate, feed dog and presser foot assembly	
12	Industrial Lockstitch Sewing Machine with Automatic Feeding System	Machine type: Intelligent fabric thickness adaptation lockstitch sewing machine Feeding system: Automatic feeding/thickness adaptation function Included: Suitable stand and table Construction: Industrial-grade construction Application: Suitable for professional garment production applications	2
13	Industrial Sewing Machine for Heavy Fabrics	Machine type: Industrial Sewing Machine for Heavy Fabrics Fabric suitability: Suitable for heavy fabrics Hook system: Large hook system Stitch length: 7 mm Application: Suitable for professional garment manufacturing applications	1
14	Industrial Four-Thread Overlock Machine	Machine type: Super high-speed four-thread power-saving overlock machine Fabric suitability: Suitable for normal-weight materials Drive system: Direct-drive system Lighting: LED working light Construction: Industrial construction suitable for continuous operation	1
15	Professional Foldable Ironing Table with Integrated Boiler	Table type: Professional ironing table with built-in boiler Construction: Foldable design Boiler capacity: 3.5 litres Working surface: Rectangular working surface Air system: Integrated powerful fan system Application: Suitable for professional garment finishing	1
16	Professional Steam Iron	Equipment type: Professional steam iron Compatibility: Suitable for use with ironing systems Boiler capacity: 3.5 litres Application: Suitable for garment finishing applications	1
17	Handheld Cloth Cutting Machine	Model reference: DWS-125 or equivalent Blade diameter: 125 mm Maximum cutting height: 40 mm Power consumption: Approximately 300 W Speed control: Adjustable speed range 900–1,500 rpm Application: Suitable for cutting textile materials	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
18	Industrial Lockstitch Sewing Machine with Stand and Table	Machine type: Professional single-needle lockstitch sewing machine Fabric adaptation: Automatic fabric thickness adaptation Drive system: Direct-drive servo motor Sewing speed: Minimum 5,000 stitches/min Stitch length: Up to 5 mm Automatic functions: Automatic thread trimming, automatic needle positioning and automatic back-tacking function Presser foot: Adjustable presser foot pressure Lighting: LED working light Included: Industrial stand and work table Fabric suitability: Suitable for cotton, polyester, canvas, denim, blended fabrics and light to medium-weight textiles Power supply: 220–240 V	1
19	Professional Steam Ironing Table	Application: Professional ironing table for garment finishing Construction: Foldable design Integrated system: Steam boiler and built-in steam iron Air system: Vacuum and blowing system Heating: Electrically heated ironing surface Temperature control: Adjustable thermostat control Working surface: Approximately 1,200 × 400 mm Water system: Water tank with automatic refill capability Power supply: 220–240 V Fabric suitability: Suitable for cotton, polyester, linen, wool and blended fabrics	1
20	Multi-Needle Computerized Embroidery Machine with Embroidery Design Software	Embroidery machine / Professional computerized multi-needle embroidery machine: • Needles: Minimum 12 needles • Machine configuration: Single-head embroidery system • Maximum embroidery area: Minimum 600 × 400 mm • Automatic functions: Automatic thread colour change, automatic thread trimming and thread break detection • Control panel: LCD touchscreen control panel • Embroidery speed: Minimum 1,000 stitches per minute • Connectivity: USB connectivity • File formats: Compatible with standard embroidery file formats including DST, DSB, PES or equivalent	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
		• Applications: Suitable for embroidery on T-shirts, caps, bags, jackets, uniforms, home textiles and promotional products • Included accessories: Cap embroidery attachment and a set of standard embroidery hoops • Power supply: 220–240 V AC Embroidery design software / Professional embroidery digitizing and editing software: • Design functions: Creation and editing of embroidery designs from vector and raster artwork; automatic and manual stitch generation; lettering and monogram creation; stitch editing and optimization; object sequencing and colour management • Design adjustment: Design resizing with automatic stitch recalculation and realistic embroidery simulation preview • File compatibility: Compatible with common embroidery formats including DST, PES, EXP, JEF, VP3, XXX or equivalent • Import formats: AI, EPS, SVG, PDF, BMP, PNG, and JPG (or equivalent) • Design transfer: USB design transfer support • Compatibility: Compatible with Microsoft Windows operating systems • Included: User documentation and software updates	
21	Heavy-Duty Domestic Sewing Machine	Machine type: Heavy-duty domestic sewing machine for garment making, textile crafts, repairs and creative projects Construction: Heavy-duty metal frame construction Motor: Powerful motor suitable for sewing multiple layers of fabric Stitch patterns: Minimum 30 built-in stitch patterns including utility, stretch, decorative and buttonhole stitches Sewing speed: Minimum 1,000 stitches/min Adjustment functions: Adjustable stitch length and stitch width Buttonhole function: One-step automatic buttonhole function Additional functions: Reverse sewing function; adjustable presser foot pressure; high presser foot lift for thick fabrics Bobbin system: Top drop-in or front-loading bobbin system Lighting: Built-in LED sewing light Additional features: Free arm for sleeves and cuffs Included accessories: Standard presser feet and accessories Material suitability: Suitable for cotton, denim, canvas, upholstery fabrics, leather and synthetic materials	3

No.	Equipment Name	Detailed Technical Specifications	Quantity
		Power supply: 220–240 V	

Lot 2 – Printing, Imaging and Digital Content Production Equipment

This lot comprises professional digital printing, graphic design, photography and content production equipment together with the accessories required for integrated operation.

No	Equipment Name	Detailed Technical Specifications	Quantity
	Flatbed UV LED Inkjet Printer System with Accessories	Printer type: Professional UV LED flatbed inkjet printing system Printing area: Minimum 600 × 420 mm Print resolution: Up to 1,200 × 1,200 dpi Substrate thickness: Capable of direct printing on rigid substrates up to 153 mm thick Ink compatibility: Compatible with rigid and flexible UV-curable inks, including white, clear and primer inks Print heads: Minimum four staggered print heads or equivalent technology Ink system: Bulk ink supply system with refillable reservoirs or equivalent technology Image processing: Advanced halftone processing technology or equivalent for improved detail reproduction and reduced graininess Workflow integration: Suitable for integration into digital production workflows and automation systems, including IoT-enabled production environments or equivalent Protection system: Enclosed or protected printing system designed to minimize dust contamination and maintain consistent print quality Positioning system: Precision positioning using a moving printing table with a ball screw drive mechanism or equivalent Material compatibility: Suitable for direct printing on acrylic, plastics, PET sheets, wood, metal, glass, and other similar rigid substrates Included accessories: Rotary printing attachment, ioniser unit, and a complete set of UV-curable inks	1
	Rotary Printing Attachment for UV Printer	Compatibility: Compatible with the supplied UV flatbed printer system Printing function: Full-colour and spot-colour printing on cylindrical objects	1

No	Equipment Name	Detailed Technical Specifications	Quantity
		Object diameter: Suitable for cylindrical objects up to 100 mm diameter Applications: Suitable for printing on metal mugs, glass bottles and similar cylindrical objects	
	Ioniser Unit for UV Flatbed Printer	Equipment type: Ioniser unit compatible with the UV flatbed printing system Function: Neutralises static electricity in and around the printing area during printing operations to minimise static charge on the substrate Material compatibility: Suitable for printing on highly static-sensitive materials, including acrylic, ABS plastics, PET sheets, and similar substrates Purpose: Reduces the attraction of dust and airborne ink particles to the print surface during printing, thereby improving print quality and ensuring consistent printing results	1

Lot 3 – Textile/Denim Processing, Recycling and Production Support Equipment

This lot comprises specialized equipment for textile processing, finishing, recycling and production support.

No.	Equipment Name	Detailed Technical Specifications	Quantity
1	Industrial Washer Extractor for Denim Garments	Application: Industrial washing of denim garments Washing capacity: 30 kg Washing speed: 36 rpm High spin speed: 720 rpm Motor power: 4 kW Total electrical power: 24 kW Water consumption: 473 kg/h Water inlet connection: DN25 Drain pipe diameter: 140 mm Required water pressure: 0.2 - 0.3 MPa Drum and wetted parts material: SUS 304 stainless steel or equivalent corrosion-resistant material Heating method: Electric heating	1
2	Industrial Dryer for Denim Garments	Application: Industrial drying of denim garments Capacity: 35 kg Motor power: 0.75 kW Fan power: 0.75 kW	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
		Electrical consumption: Approximately 32 kW/h	
3	Industrial Textile Cutting Machine for Fabric Waste	Application: Cutting and size reduction of textile waste materials Cutting power: 7.5 kW Input belt conveyor size: 1,400 × 330 mm Input conveyor motor: 1.5 kW Output conveyor: Belt conveyor included Reducer: 100# Fixed blades: 400 mm, 2 pcs Rotary blades: 400 mm, 8 pcs Control system: Control cabinet included Voltage: Customized according to installation requirements	1
4	Vertical Rubber Coating Spray Machine for Denim Jackets	Application: Rubber coating/spraying of denim garments Power supply: AC 220 V, 50 Hz Power consumption: 38 W Required compressed air pressure: 0.3–0.8 MPa	1
5	Two-Legged Horizontal Automatic Spray Machine for Jeans Finishing	Application: Automatic spraying/finishing of jeans Power supply: AC 220 V, 50 Hz Power consumption: 120 W Required compressed air pressure: 0.3–0.8 MPa	1
6	Industrial Single-Shaft Textile Fabric Shredder (Laboratory/Pilot Scale)	Application: Mechanical shredding and size reduction of post-consumer and post-industrial textile waste for circular product development and laboratory- and pilot-scale production. Suitable materials: Cotton, denim, polyester, wool, mixed textiles, garments, textile production waste, upholstery fabrics, nonwoven textiles, and soft composite textile materials. Machine type: Heavy-duty industrial single-shaft shredder with hydraulic pusher system, slow-speed high-torque rotor, and interchangeable screen system for controlled output particle size. Output material: Homogeneous textile flakes with adjustable particle size of approximately 20–100 mm, depending on screen selection, rotor configuration, and processed material. Nominal capacity: Approximately 100-200 kg/hour, depending on textile type, moisture content, and required output particle size. Technical features: ○ Hardened alloy steel rotor knives; ○ Replaceable counter knives;	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
		○ Hydraulic ram feeder; ○ Automatic reverse system; ○ Overload protection; ○ PLC-based electrical control panel; ○ Emergency stop function; ○ Safety interlock switches; ○ Low-speed, energy-efficient operation; ○ Preparation for connection to an external dust extraction system; ○ Heavy-duty welded steel frame with industrial bearings. Electrical requirements: 380–400 V / 50 Hz / 3-phase. Motor power: 11–15 kW (final configuration according to the selected machine model). Scope of supply: Complete shredding unit; hydraulic feeding system; interchangeable screen set; spare knife set; tool kit; user, operation and maintenance manuals in English; CE Declaration of Conformity; factory testing; remote commissioning; basic operator training; and technical support. Optional equipment: Additional screen sizes (20, 40, 60, 80, and 100 mm); spare parts package; preventive maintenance kit; and on-site commissioning. Intended applications: Production of textile flakes for acoustic insulation panels, furniture and upholstery filling, pet beds, sustainable protective packaging, textile composite materials, circular product prototypes, and for demonstration, education, and applied research activities in textile circularity.	

Lot 4 – Wig Manufacturing Equipment

This lot comprises specialized equipment for professional wig and hair product manufacturing, including production, finishing and quality improvement processes, together with specialized technical training required for effective operation.

No.	Equipment Name	Detailed Technical Specifications	Quantity
1	Three-Head Weft Sewing Machine	Machine type: Automatic three-head sewing system Application: Human hair weft production Power supply: AC 220 V, 50/60 Hz Power consumption: 750 W Production capacity: Up to 300–500 wefts/day Sewing speed: Adjustable sewing speed Construction: Durable steel frame construction Operation: Low vibration and stable operation	1
2	Double-Layer Weft Machine	Machine type: Double-layer stitching system Application: Suitable for single and double-layer weft production Power supply: AC 220 V Power consumption: 550 W Sewing speed: Adjustable up to 3,500 stitches/min Stitching system: High-precision stitching system Design: Compact design suitable for professional production	1
3	Weft Repairing Machine	Machine type: Automatic weft repairing and reinforcement system Application: Suitable for human hair weft production Power supply: AC 220 V Power consumption: 400 W Tension control: Adjustable sewing tension Function: Improves product durability and quality consistency Operation: Easy operation and maintenance	1
4	Weft Packing Machine	Machine type: Semi-automatic packaging system	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
		Application: Packaging of finished hair wefts and extensions Power supply: AC 220 V Power consumption: 300 W Packing function: Adjustable packing size Design: Compact structure Operation: Easy operation	
5	Semi-Automatic Wig Making Machine	Machine type: Semi-automatic wig sewing machine Application: Suitable for lace wigs, full wigs and toppers Power supply: AC 220 V Power consumption: 550 W Sewing function: Adjustable stitching speed Performance: High production efficiency and stable operation	1
6	Electric Drying Oven for Wigs	Application: Drying of wigs after washing or colouring Temperature range: Ambient temperature to 120°C Temperature control: Digital temperature controller Chamber construction: Stainless steel chamber Power supply: AC 220 V Power consumption: 2–3 kW Heating system: Uniform hot air circulation system Timer: Adjustable drying timer	1
7	Electric Steam Oven for Wig Styling	Application: Styling, reshaping and texture setting of human hair wigs Steam control: Adjustable steam temperature control Power supply: AC 220 V Power consumption: 1.5–2 kW Construction: Stainless steel construction Steam function: Adjustable steaming time and uniform steam distribution	1
8	Hair Trimming Machine	Application: Precision cutting of wigs, toppers and hair systems Power supply: AC 220 V Power consumption: 250 W Cutting function: Adjustable cutting length Motor: High-speed motor Operation: Low-noise operation	1

No.	Equipment Name	Detailed Technical Specifications	Quantity
9	Computerized Hair Injection Machine	Machine type: Fully computerized hair injection system Control system: Touch-screen control panel Power supply: AC 220 V Power consumption: 800 W Injection system: High-precision hair implantation system Adjustment functions: Adjustable injection density and angle Material compatibility: Suitable for lace base, silk base and skin base wigs/toupees Performance: High production accuracy and reduced manual labour requirements	1
10	Specialized Digital Training Courses for Wig Production	Training format: Digital training courses Training topics: Hair Texturing Course; Toupee Course; Topper Course Included: Training materials and access to course content	3

Lot 5 – Textile Fibre Identification Equipment

This lot comprises specialized analytical equipment for rapid identification and classification of textile fibres to support textile quality control, sorting and recycling applications.

No.	Equipment Name	Detailed Technical Specifications	Quantity
1	Handheld Textile Fibre Identification Analyzer (NIR Technology)	Equipment type: Portable Near-Infrared (NIR) textile fibre identification device Application: Rapid and non-destructive identification of textile fibres Identification capability: Cotton, polyester (PET), viscose, wool, silk, polypropylene (PP), acrylic, nylon (PA6/PA66) and elastane Blended fabric analysis: Ability to recognize common blended fabrics and estimate fibre composition for selected blends Analysis time: Approximately 1–3 seconds Sample preparation: No sample preparation required before analysis Application in recycling: Enables textile sorting and fibre verification before mechanical recycling processes Purpose: Improves quality and consistency of recycled textile raw materials	1